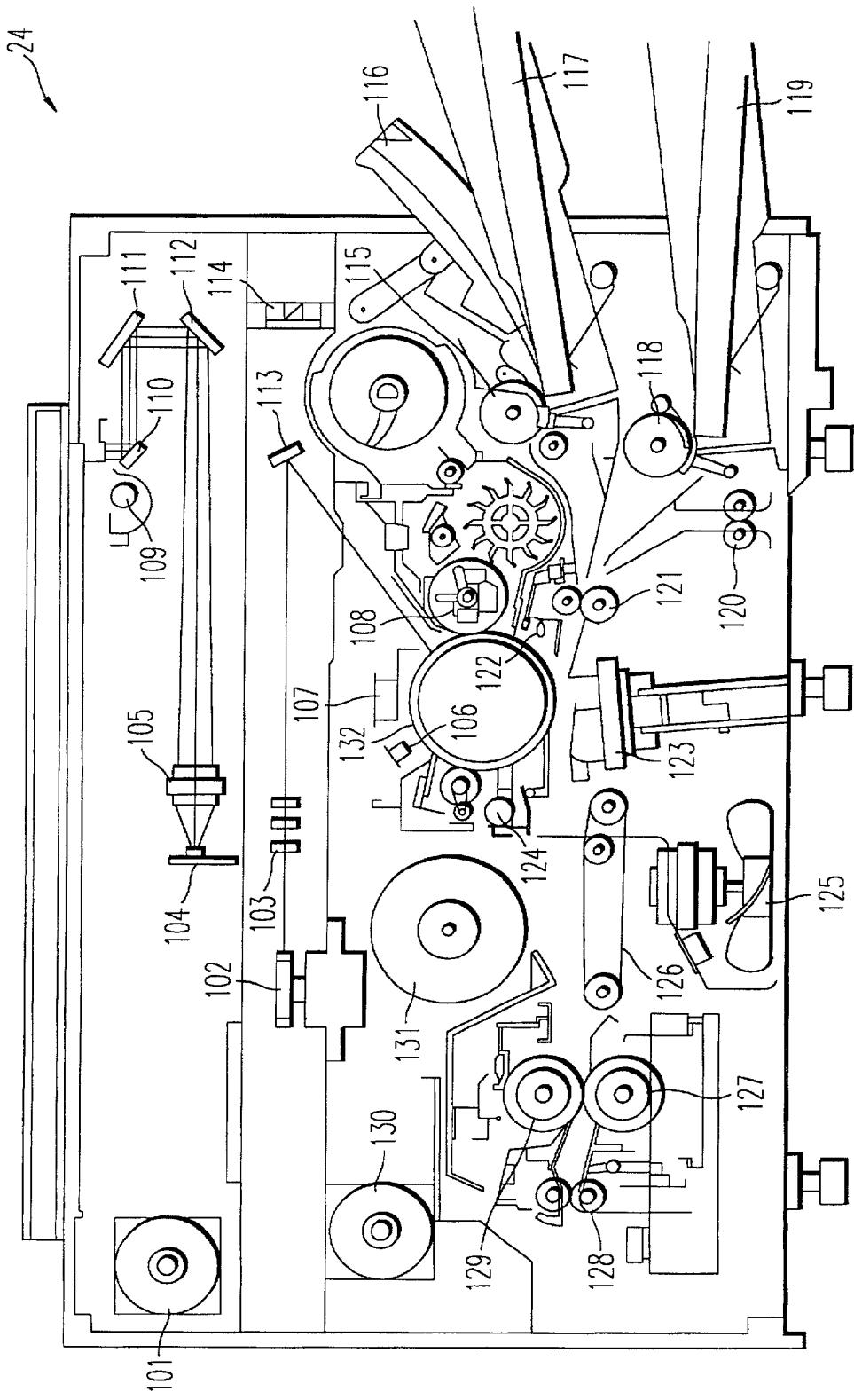


FIG. 1



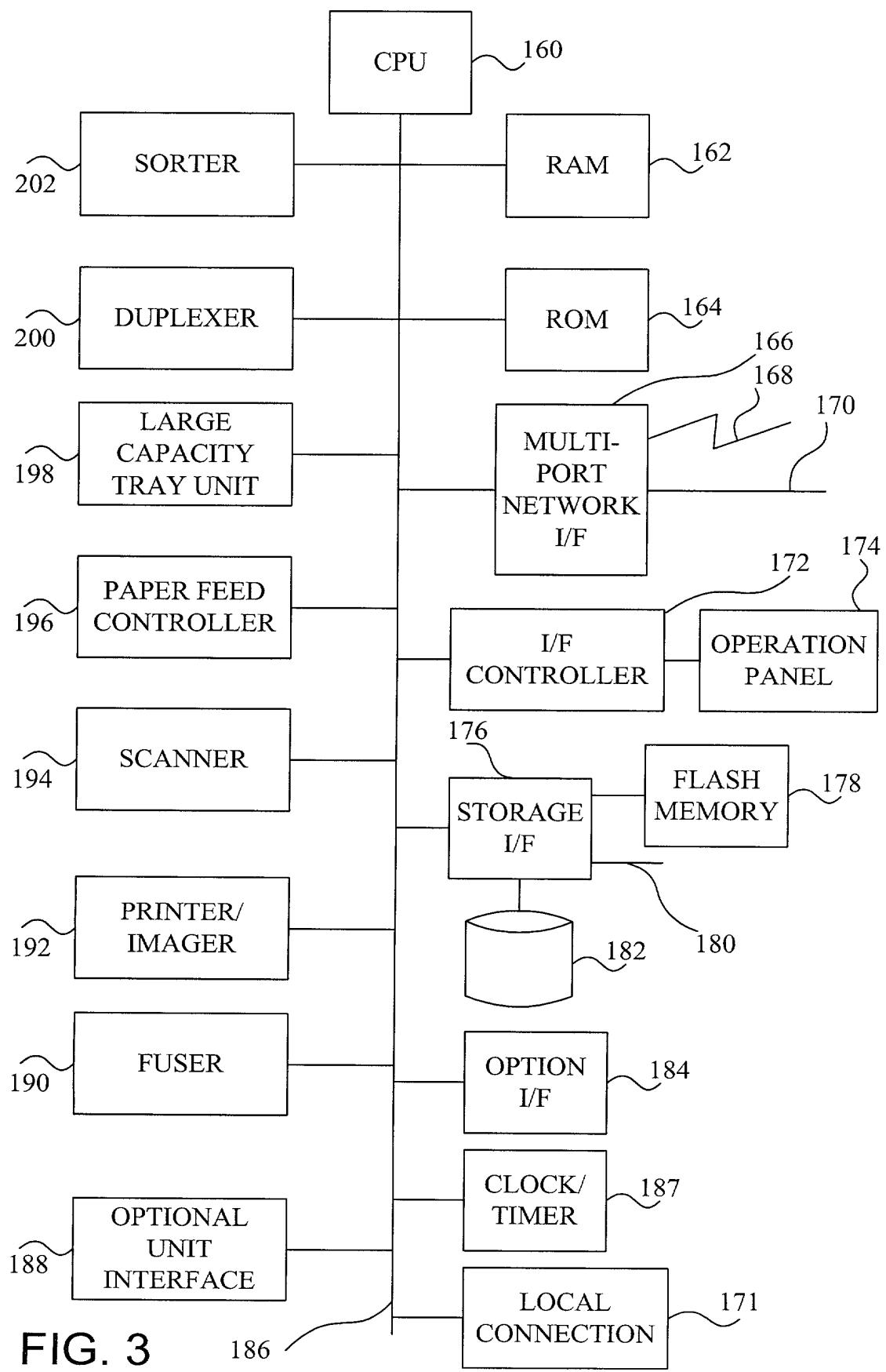


FIG. 3

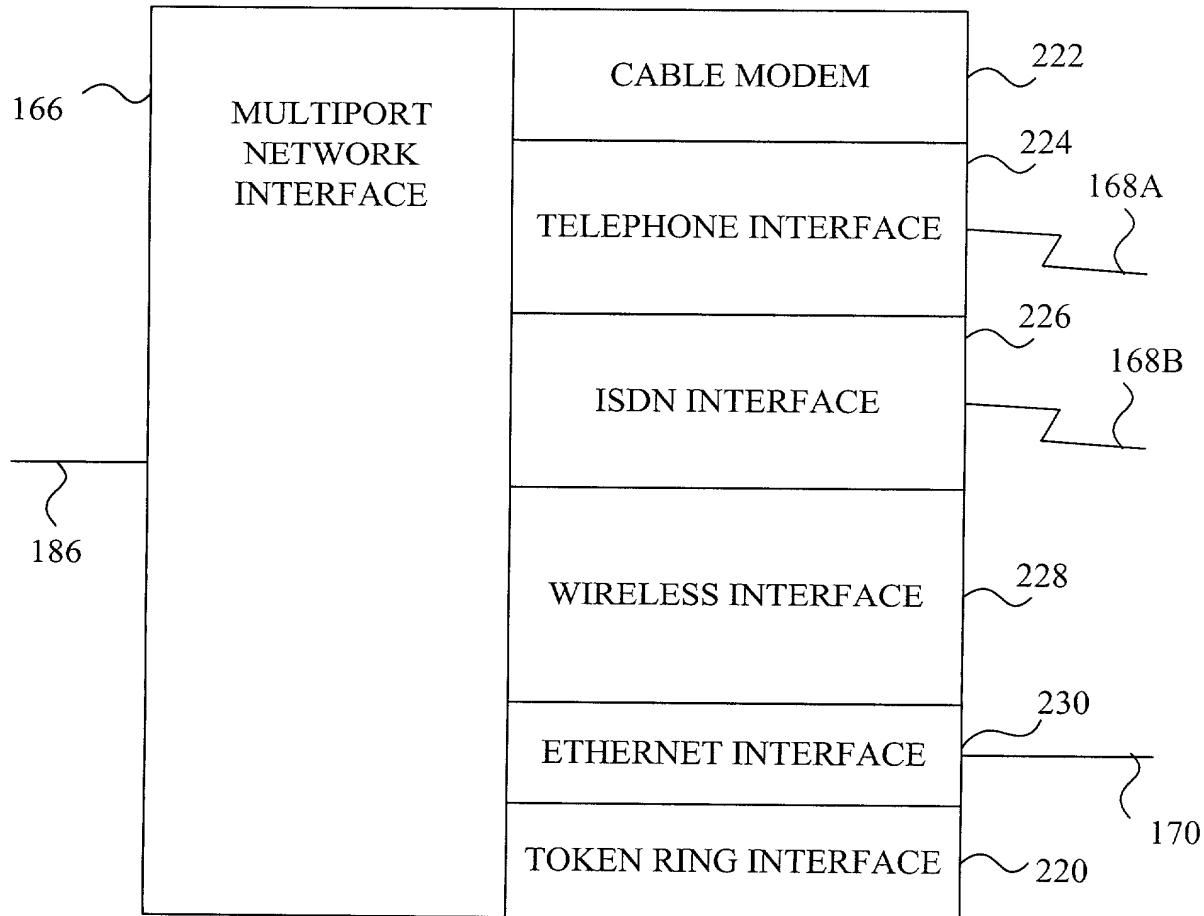


FIG. 4

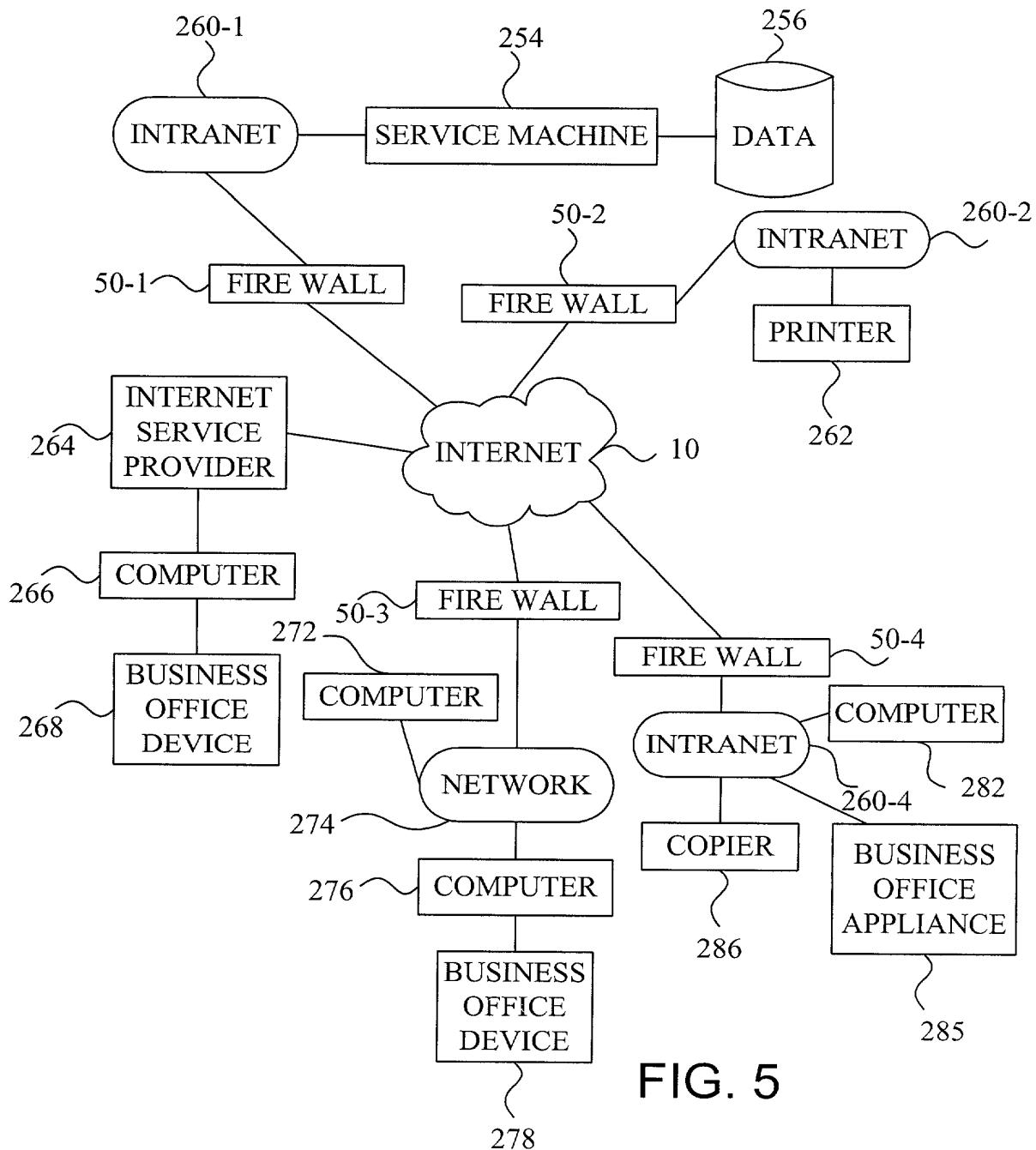


FIG. 5

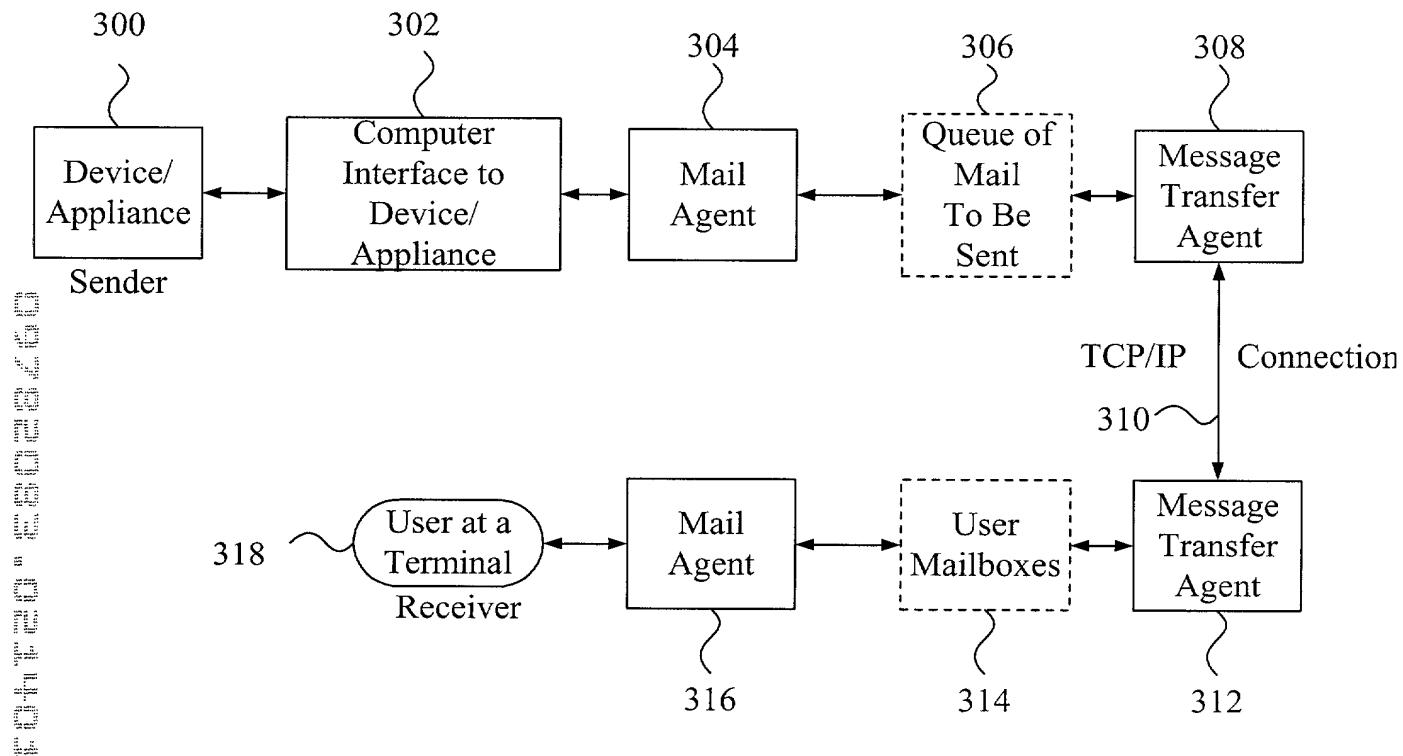


FIG. 6A

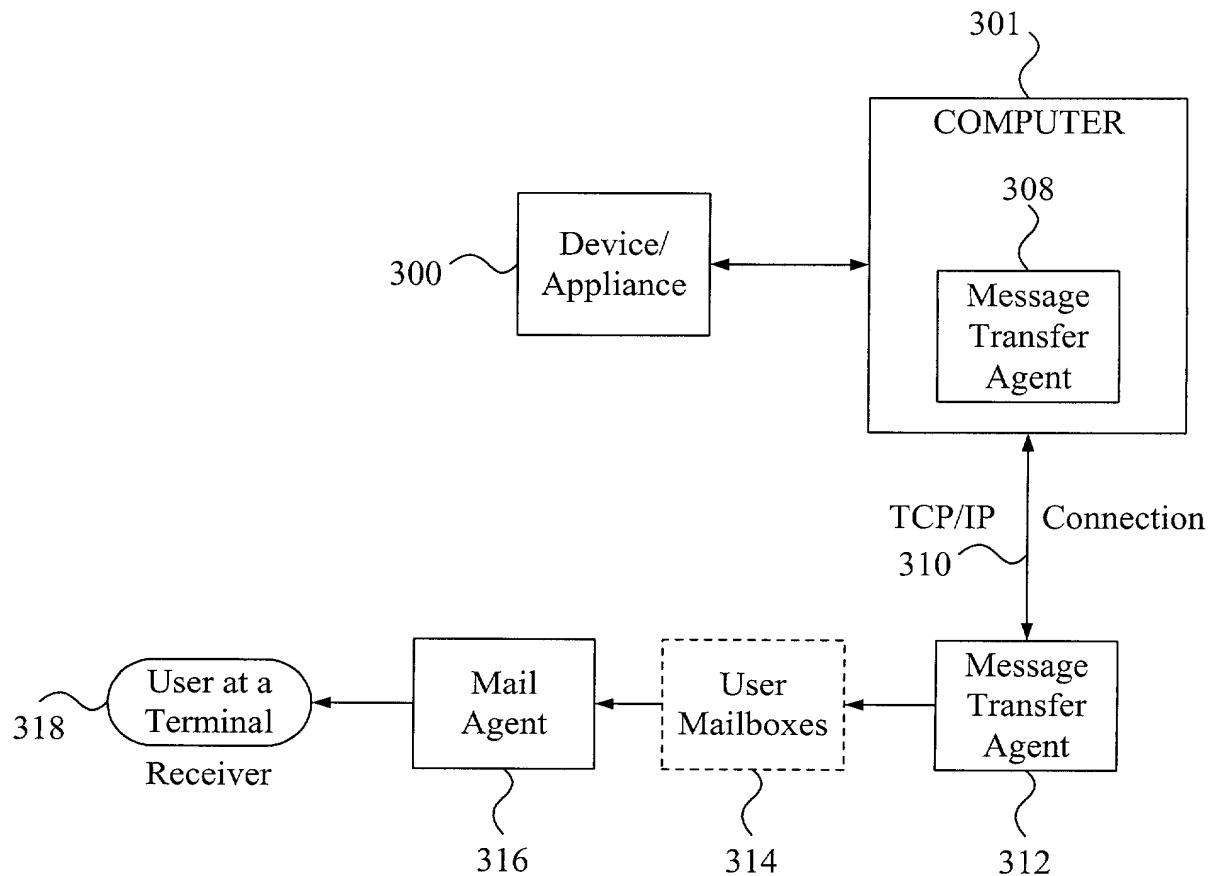


FIG. 6B

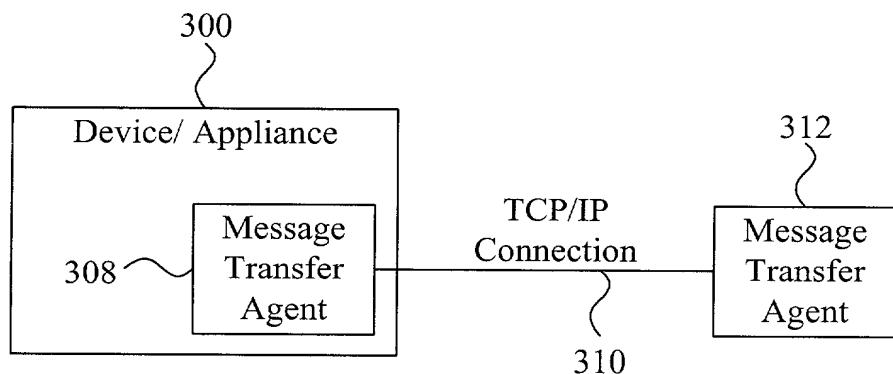


FIG. 6C

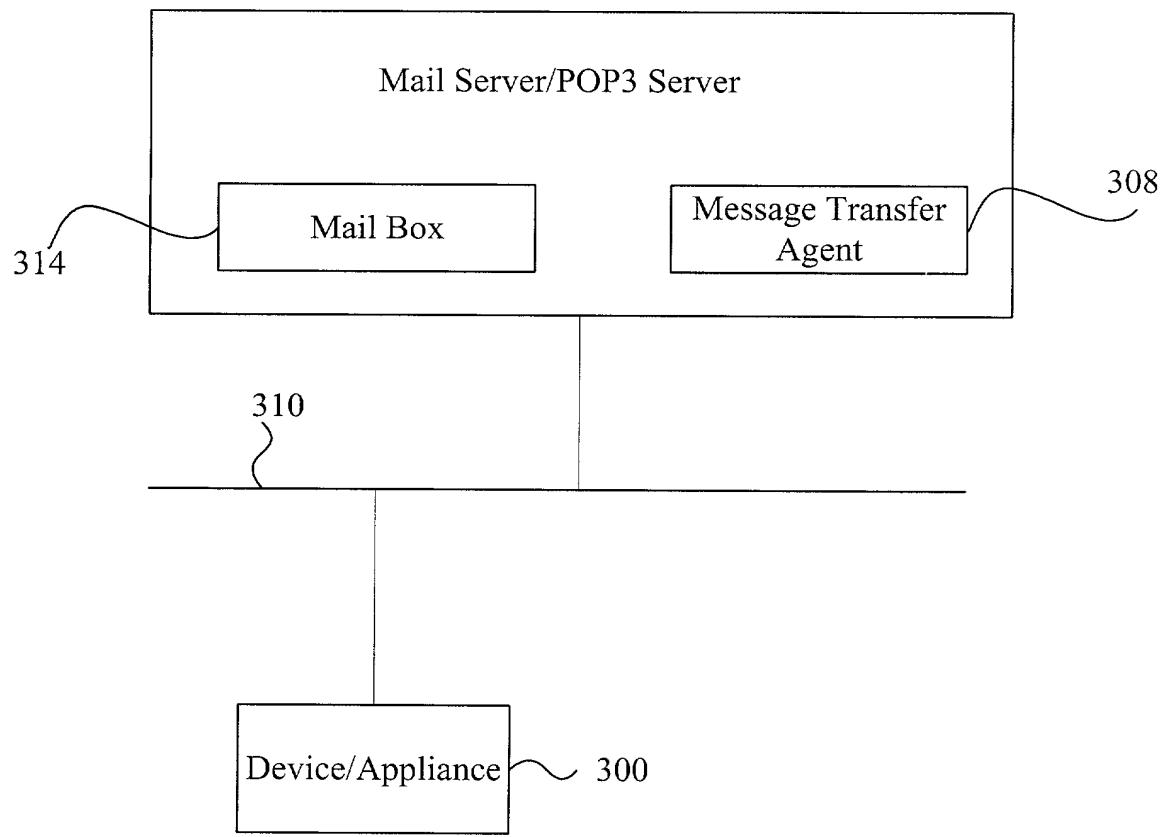


Fig. 6D

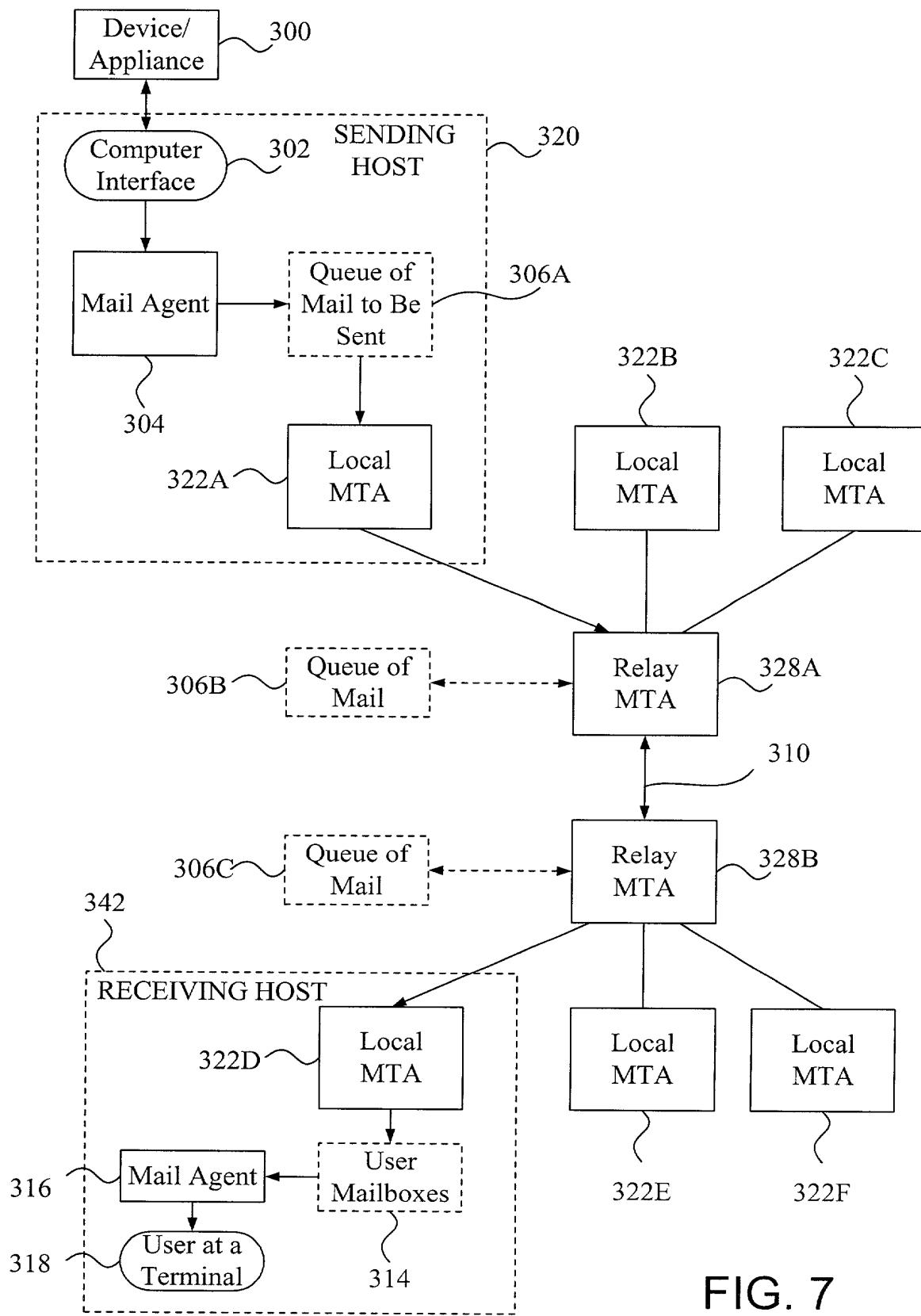


FIG. 7

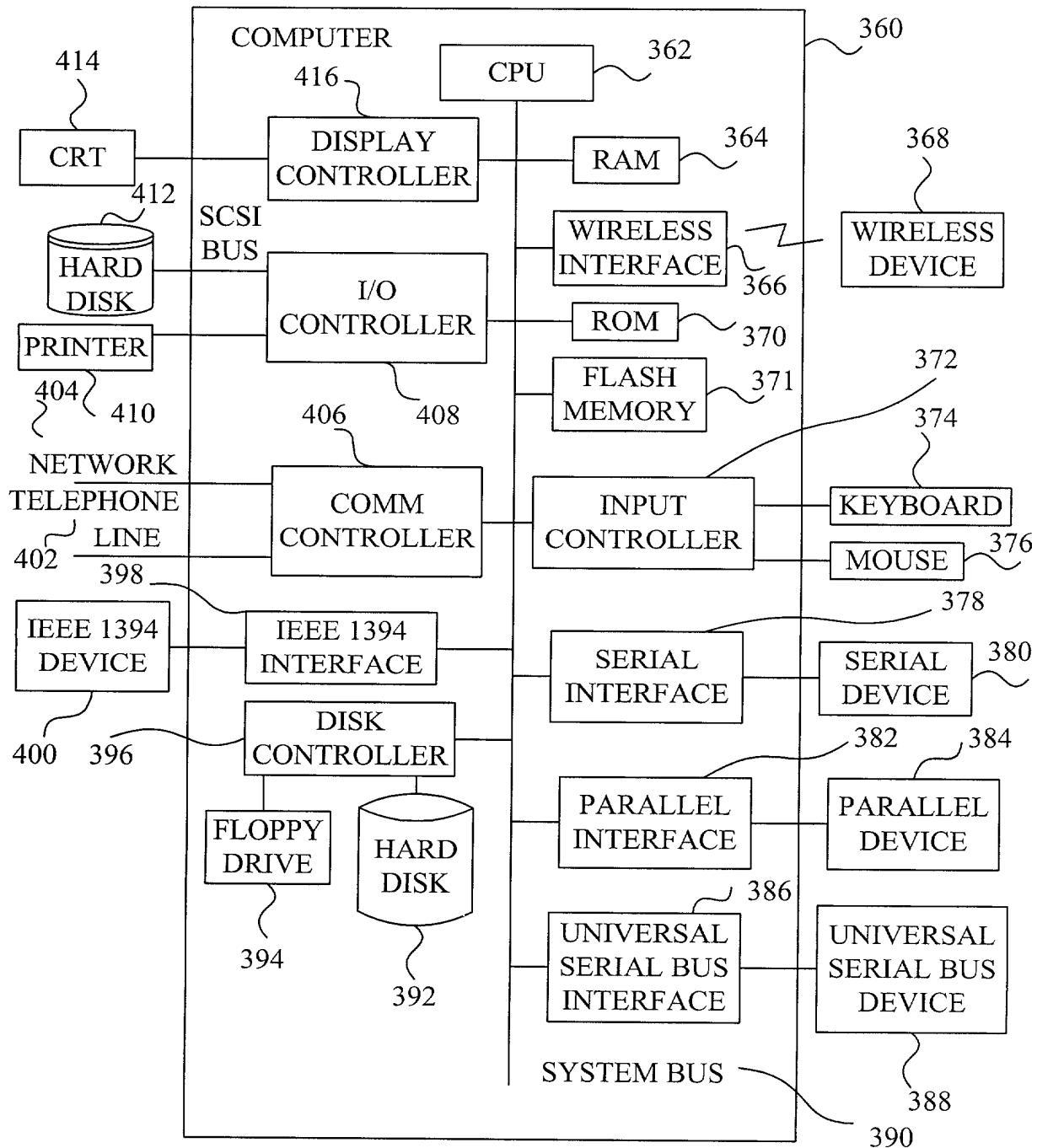


FIG. 8

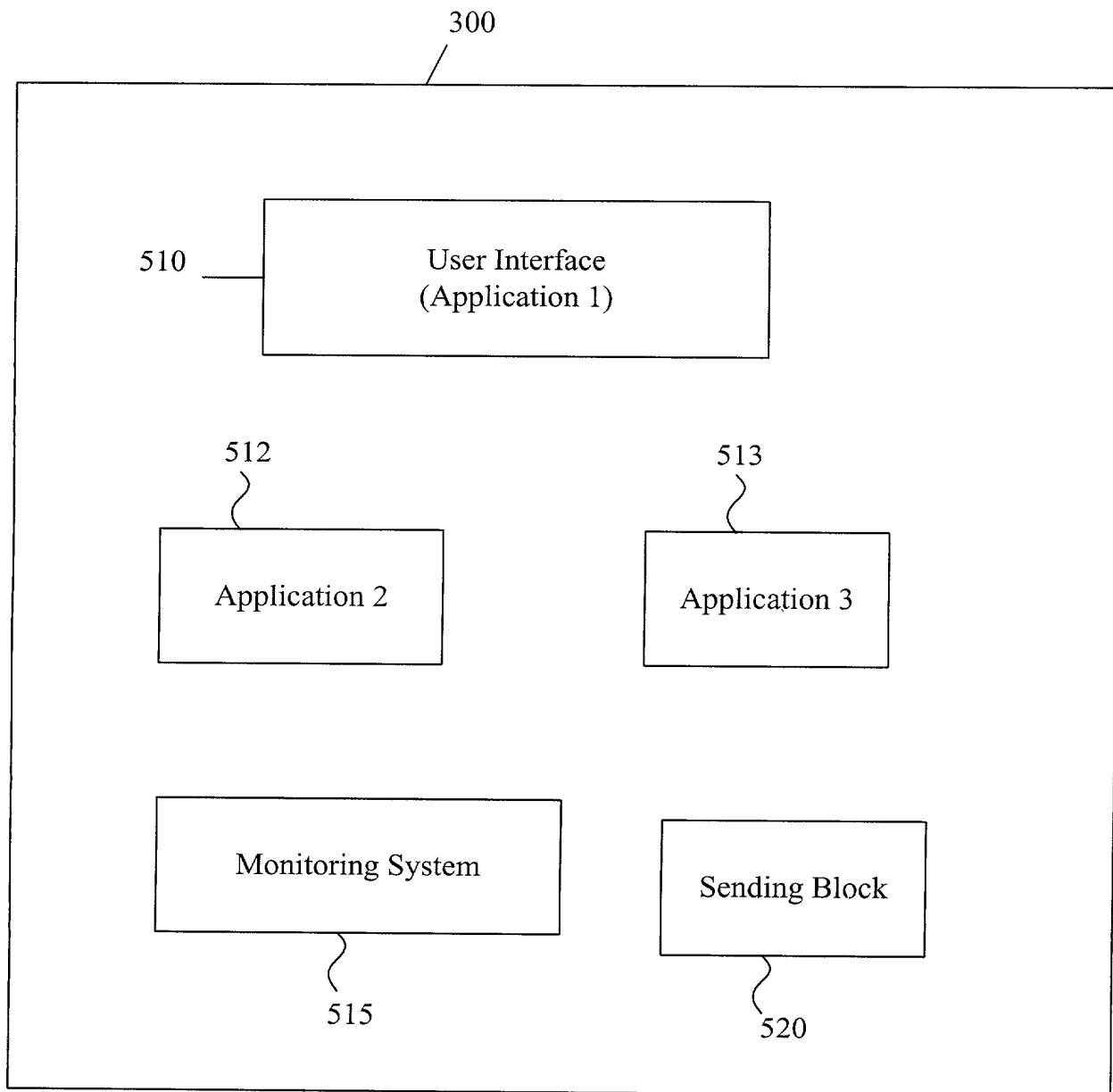


FIG. 9

FIG. 10

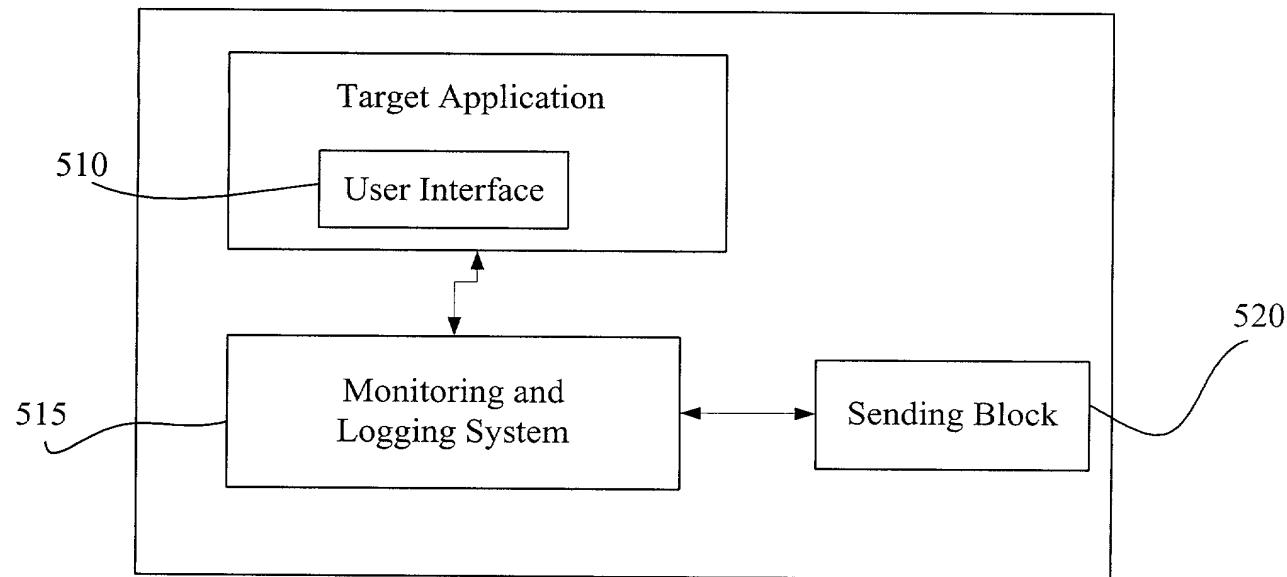
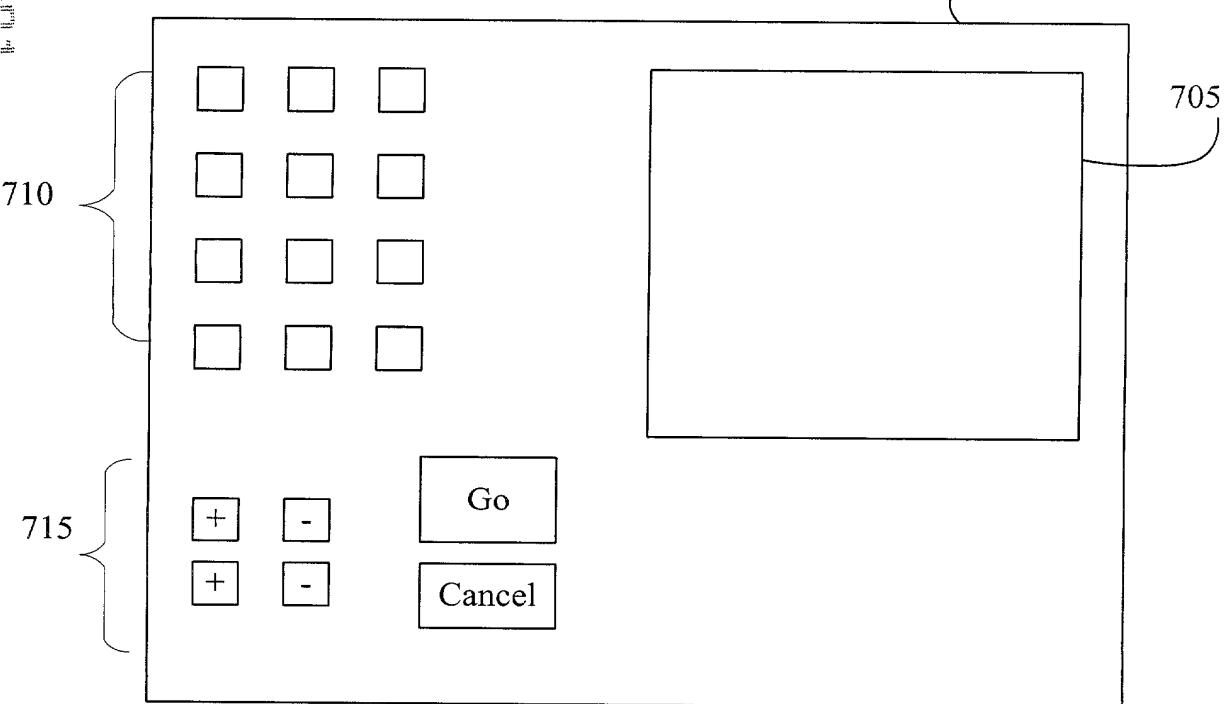


FIG. 11



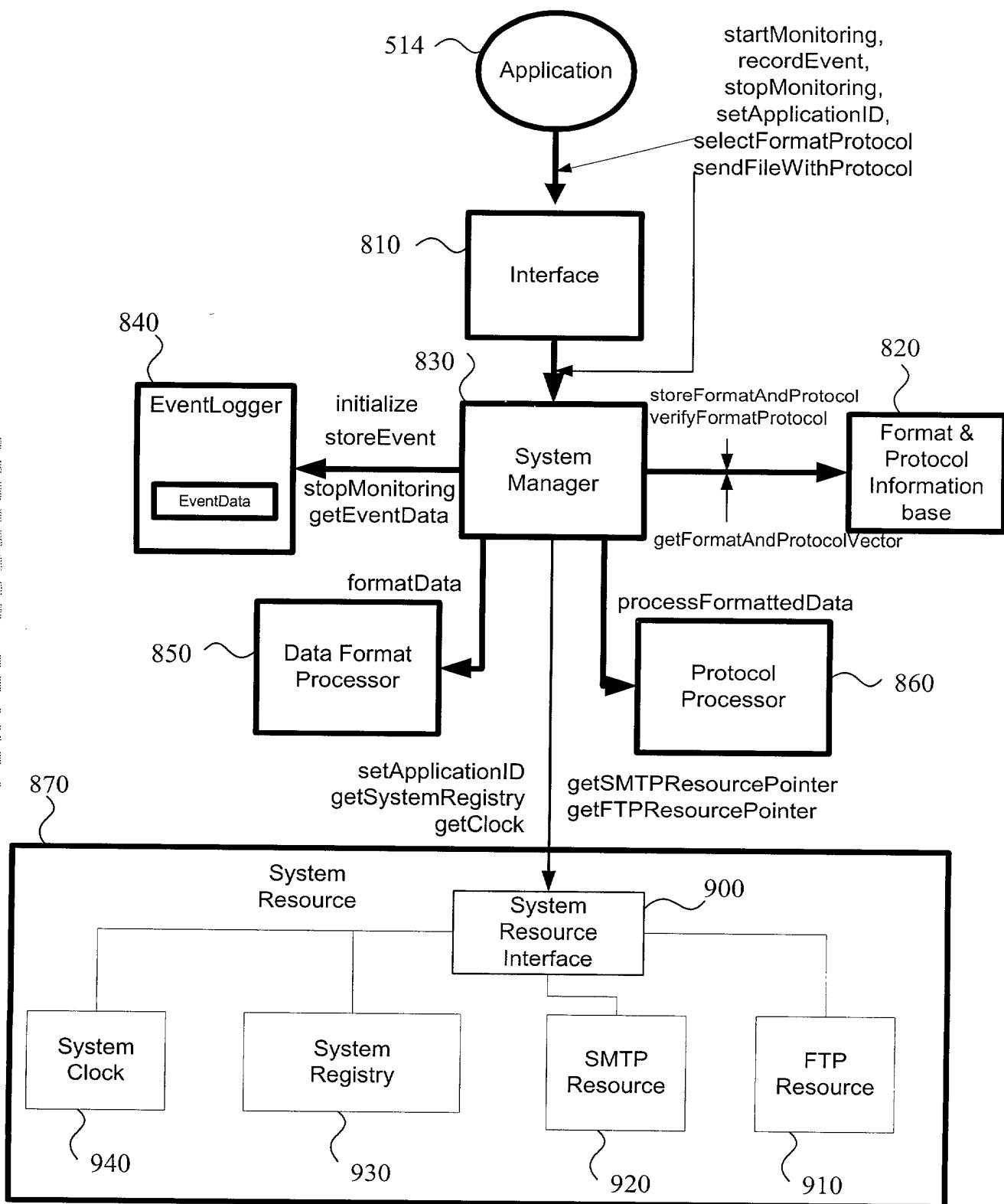


FIG. 12A

| Return Value | Function Name | Description |
|-----------------------------|-----------------------|--|
| bool | getNextSession | Returns false when there is no more session; true otherwise |
| string | getFileName | Returns file name for the EventData |
| map<string, string> | getSessionInformation | Returns the map. Keys are UserID, ApplicationID, CumulativeSessionNumber, StartTime, and Duration. |
| map<string, vector<string>> | getSessionEventData | Returns the map. Keys are EventName and EventTiming. The values of EventTiming vector are in the unit of 10th of a second converted from unsigned integer to string. |

FIG. 12B

| Return Value | Function Name | Description |
|--------------|-----------------------|---|
| bool | getNextLine | Returns one line of string data as an out parameter string. The function returns true if there is a line; false if no more line exists with empty string. |
| string | getFileNameWithSuffix | Returns file name for the data with suffix if applicable |
| enum | getDataType | Returns the data type, BINARY or TEXT |

FIG. 12C

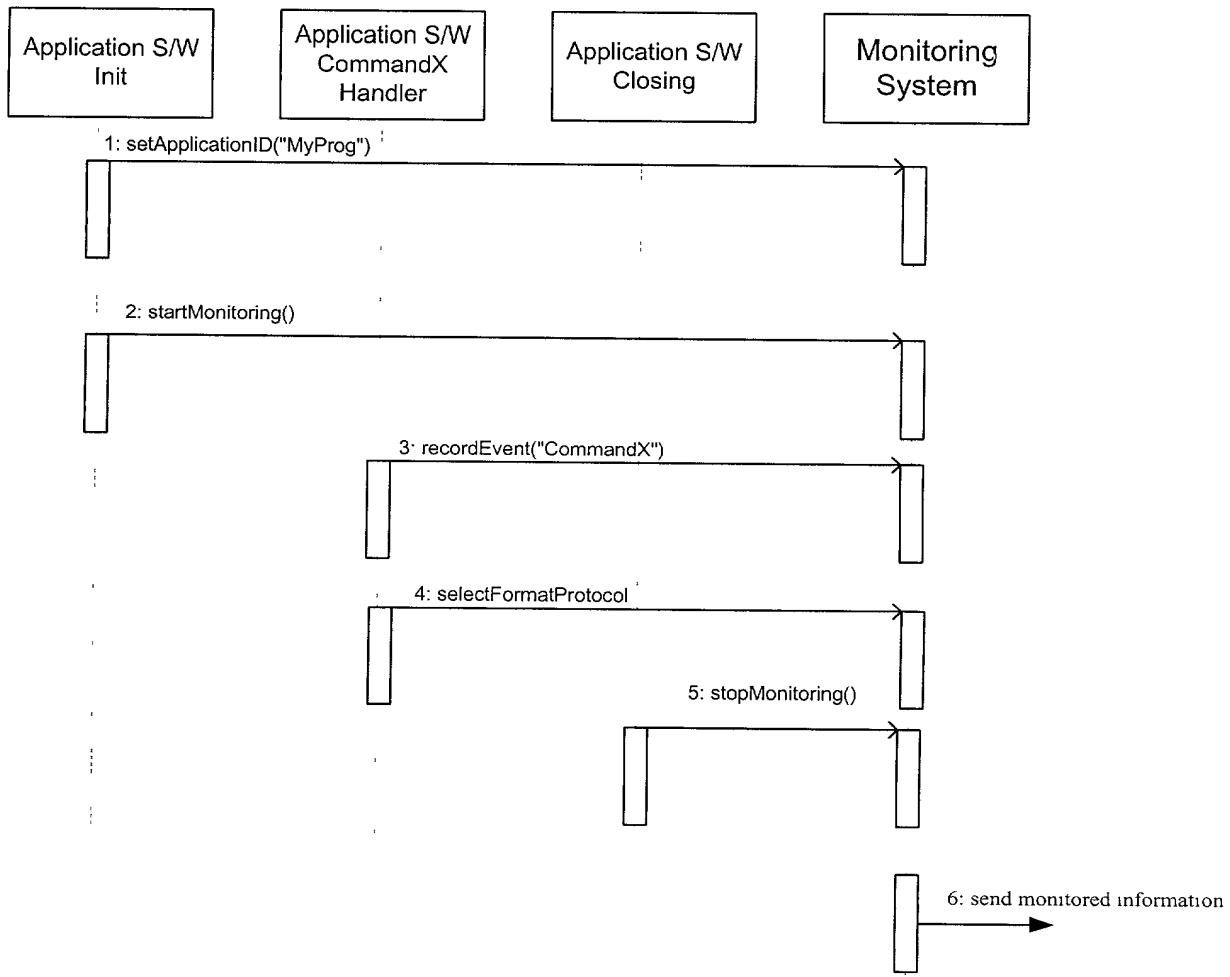


FIG. 13A

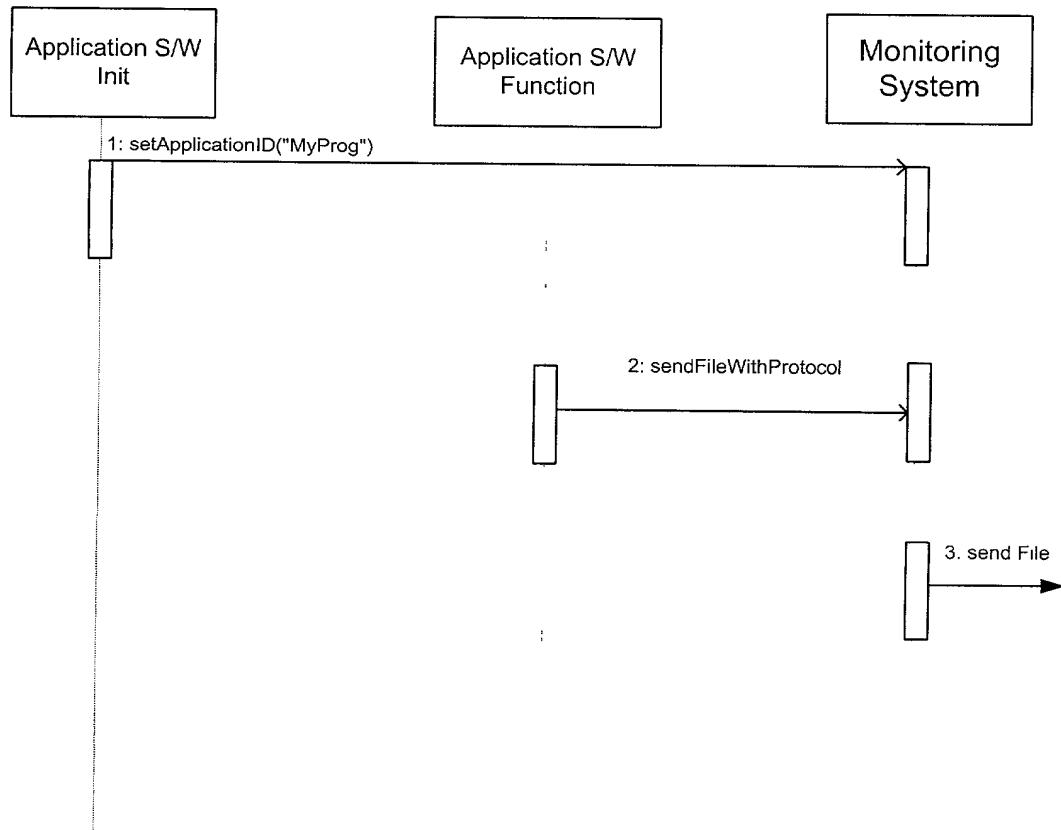


FIG. 13B

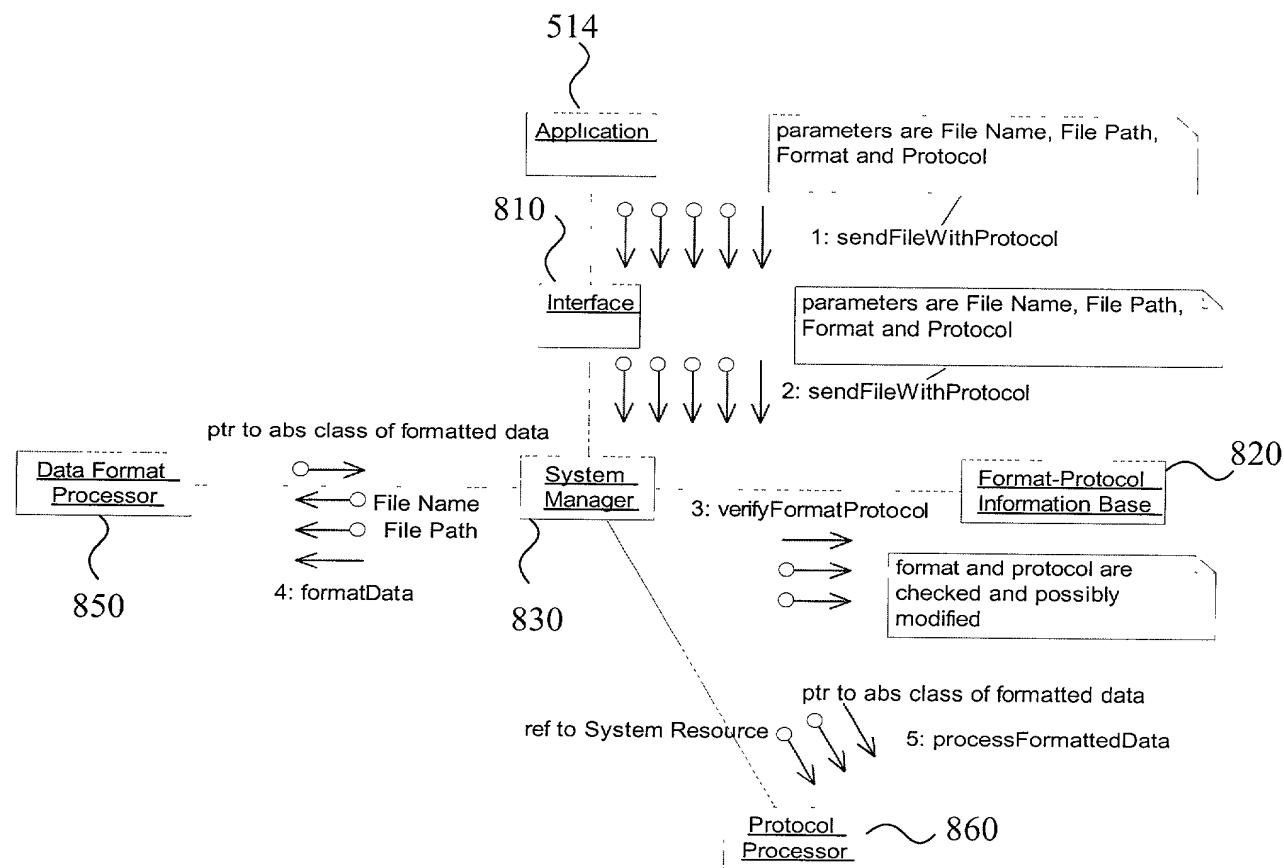


FIG. 14

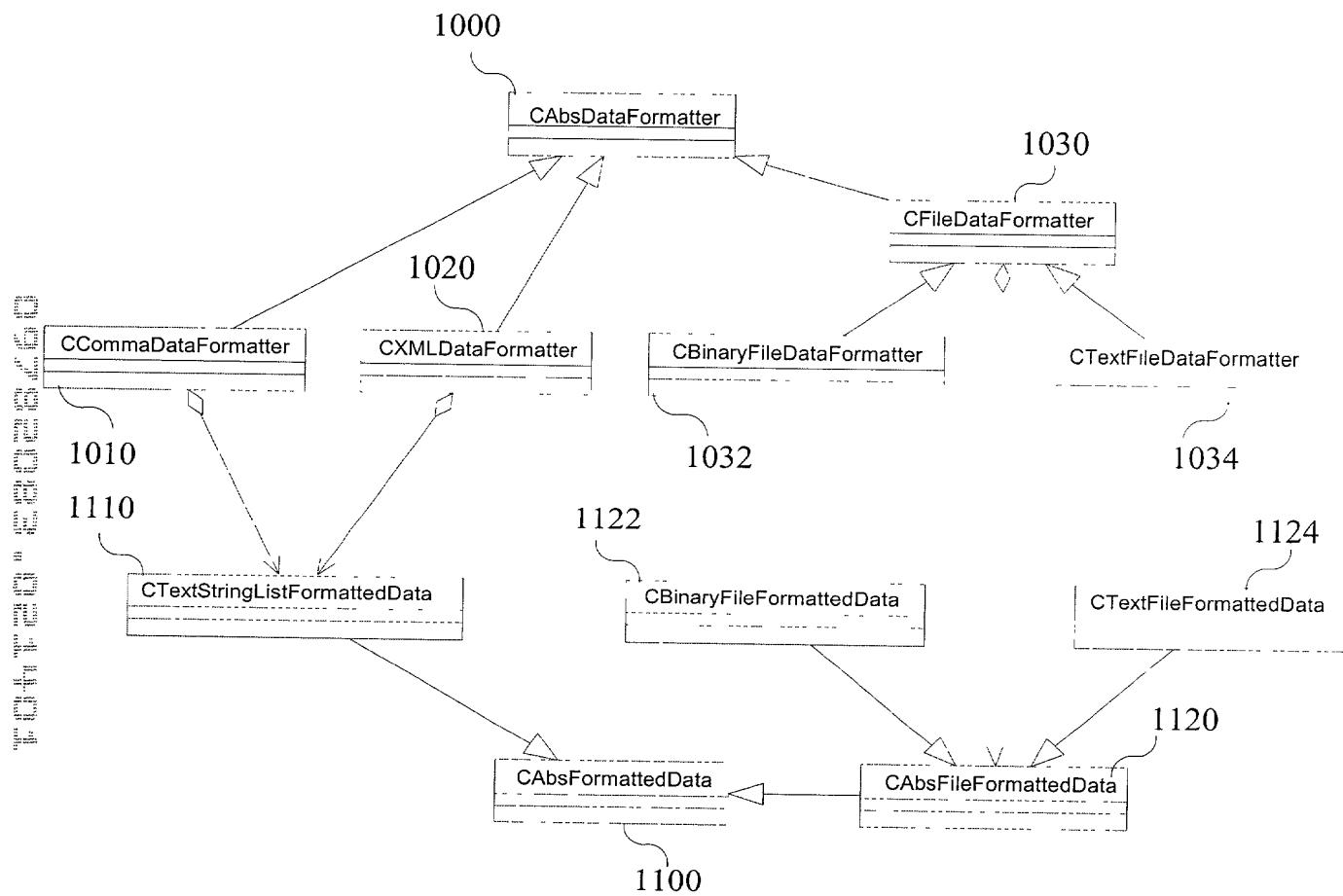


FIG. 15

830

System Manager

CAbsEventData Ptr

↑ ↓
CAbsFormattedData Ptr

1: formatData

1000

CAbsDataFormatter

Pointer to
CTextStringListFormattedData

Either CCommaDataFormatter or
CXMLDataFormatter

FIG. 16

1000 2000 3000 4000 5000 6000 7000 8000 9000 10000

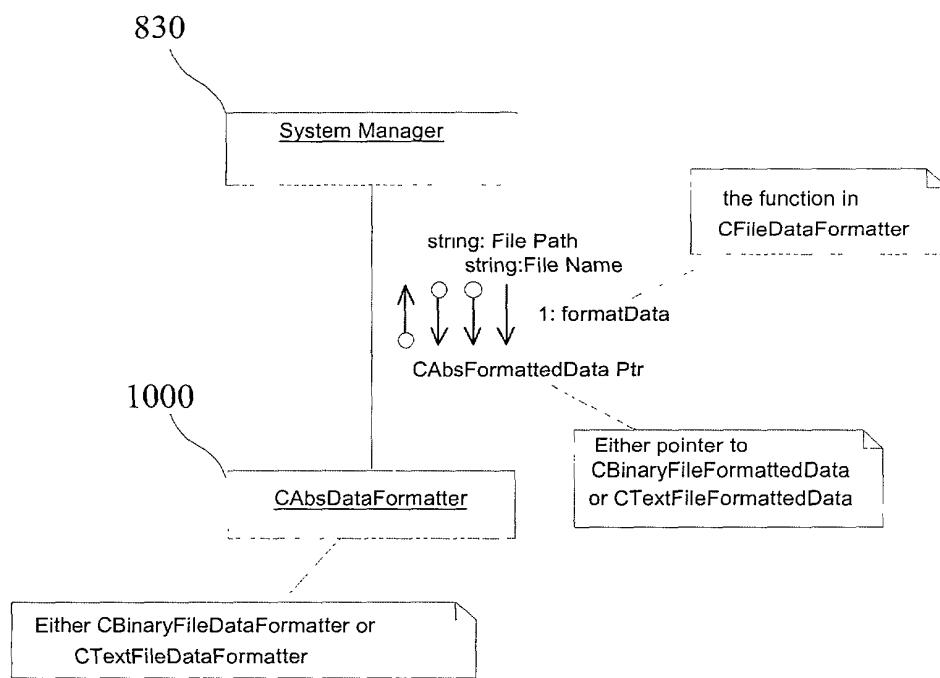
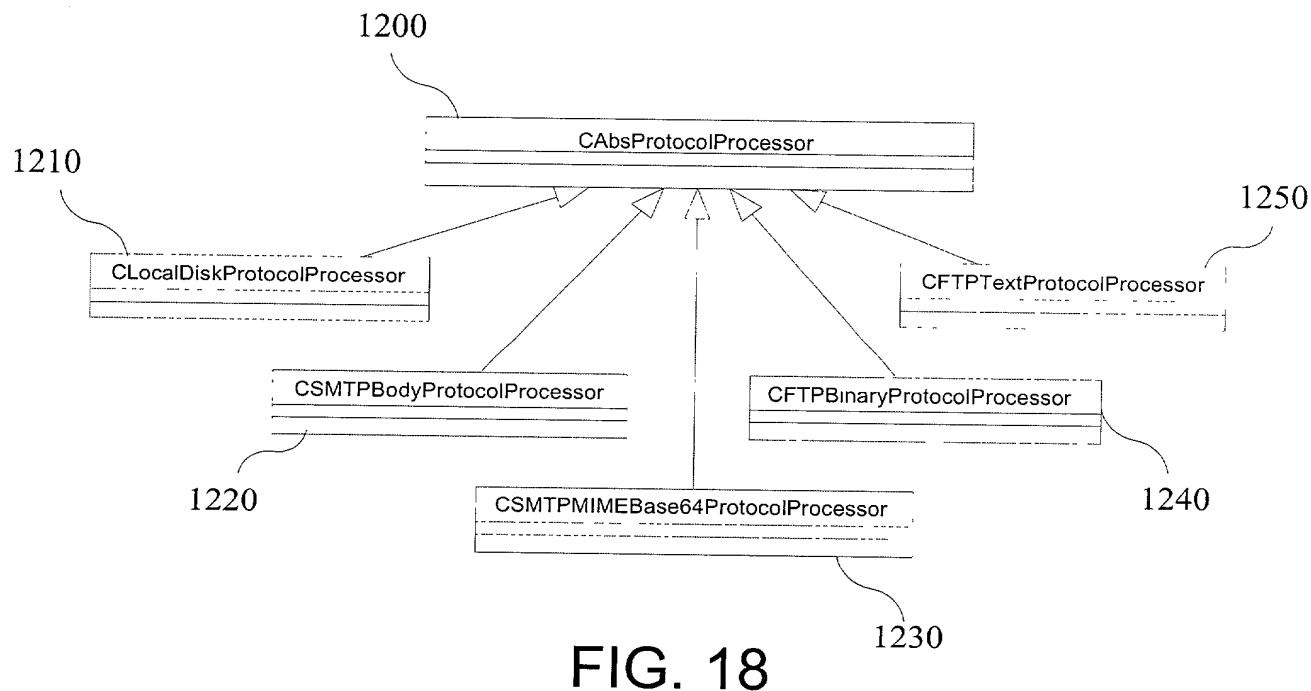


FIG. 17



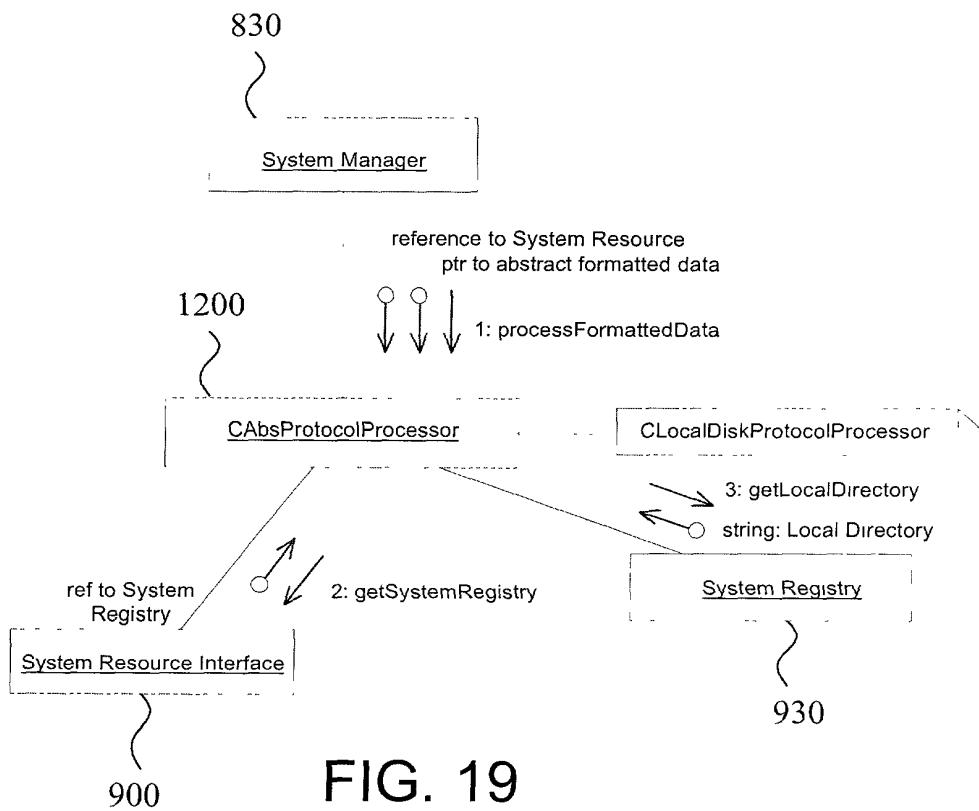


FIG. 19

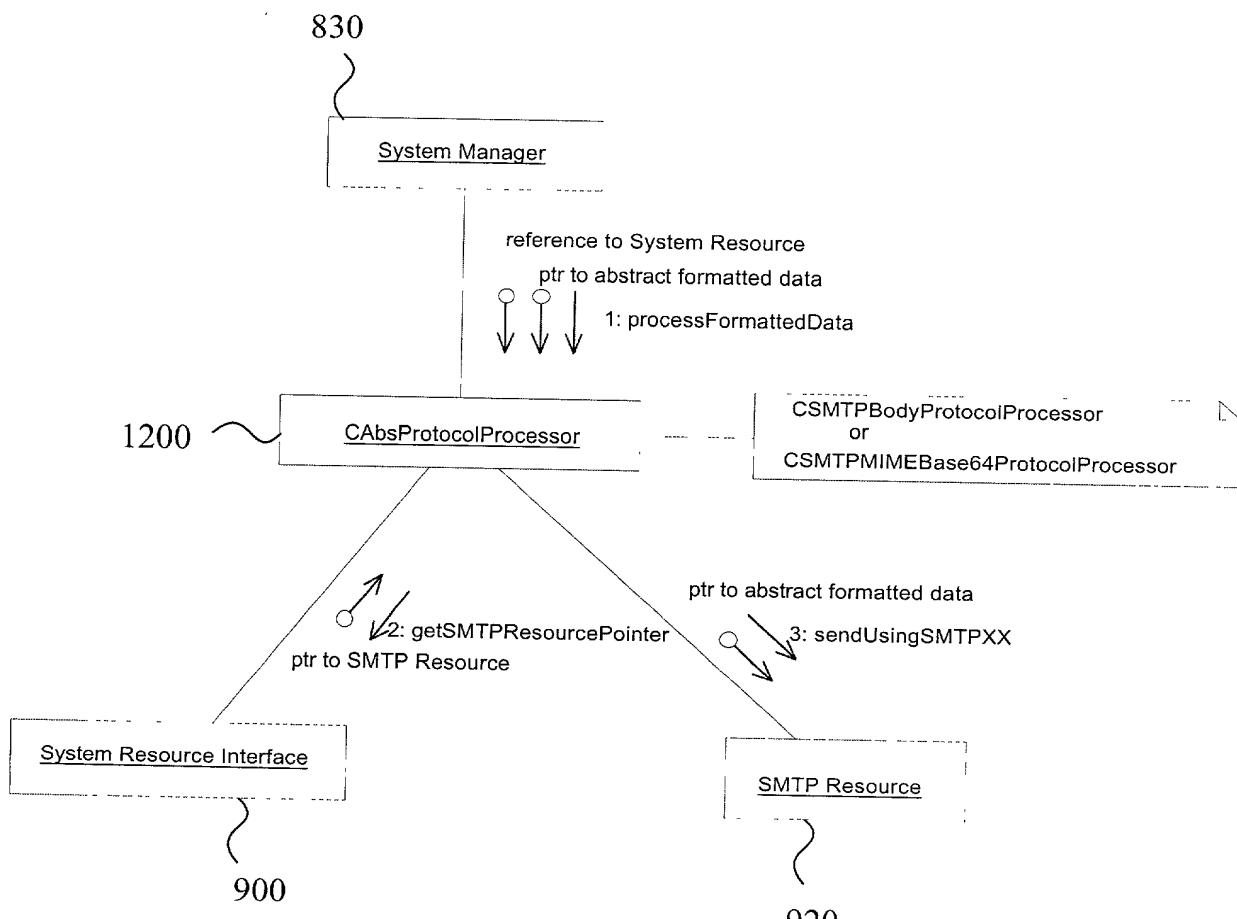


FIG. 20

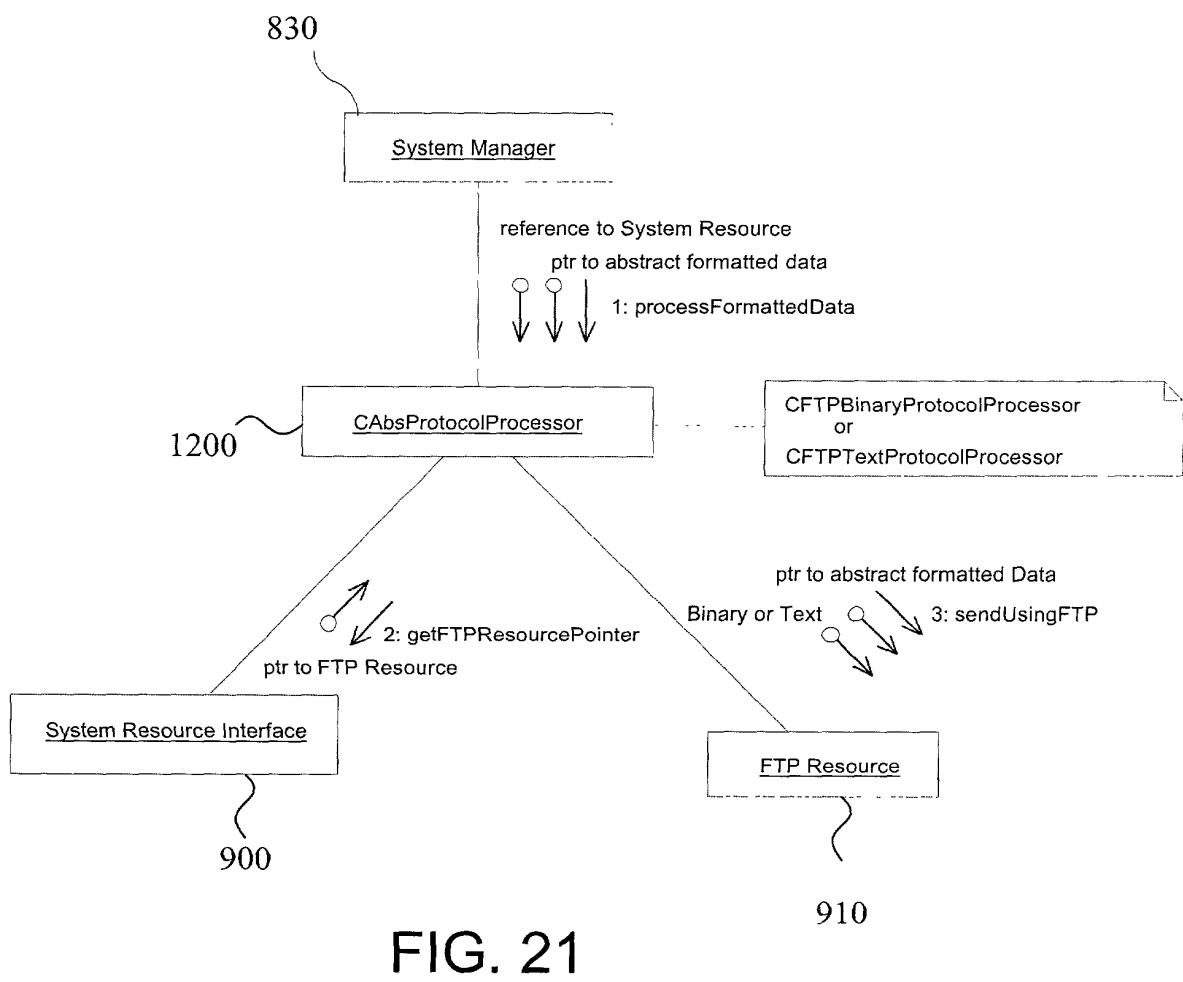


FIG. 21

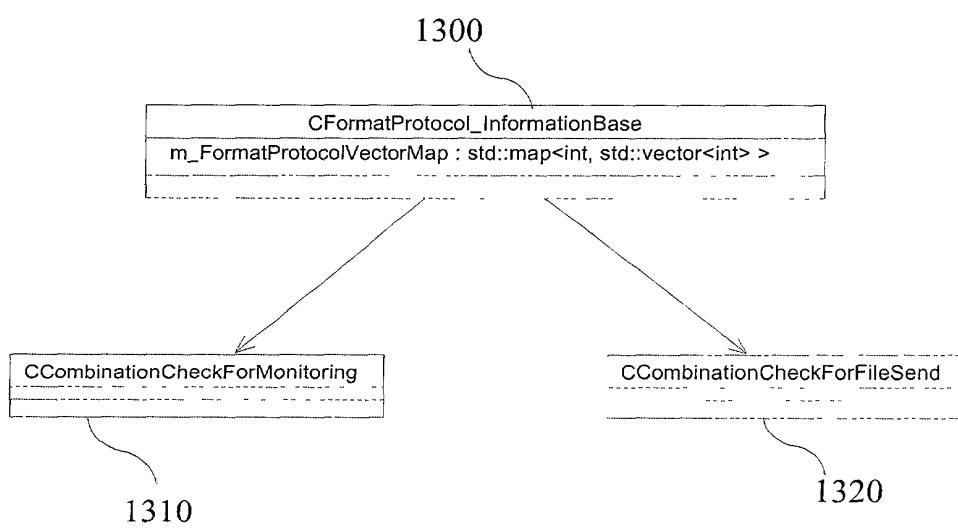


FIG. 22

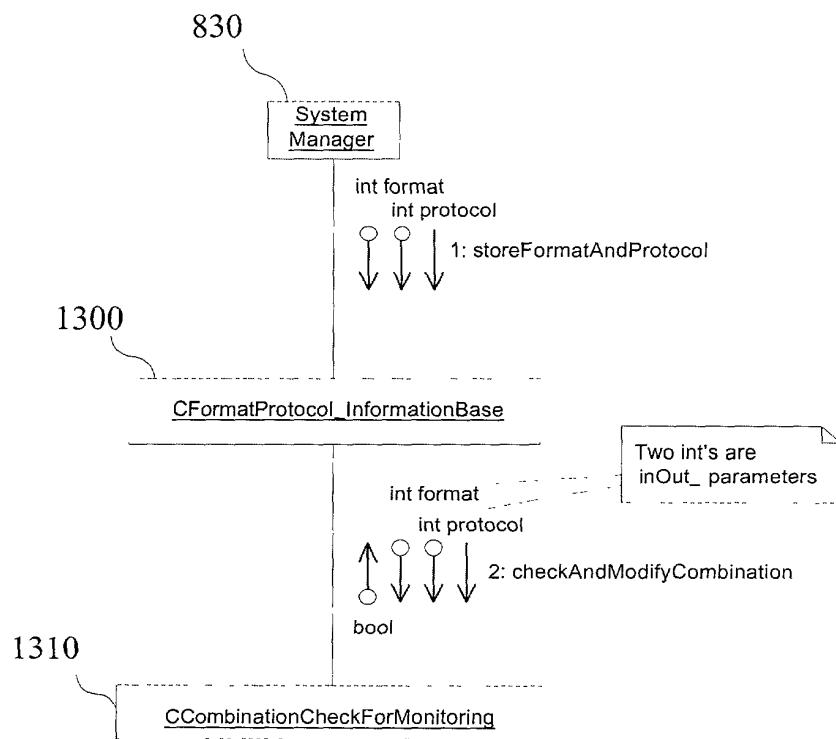


FIG. 23

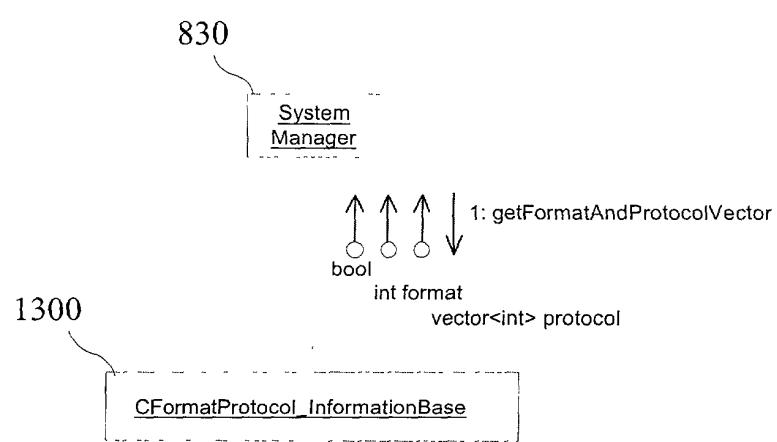


FIG. 24

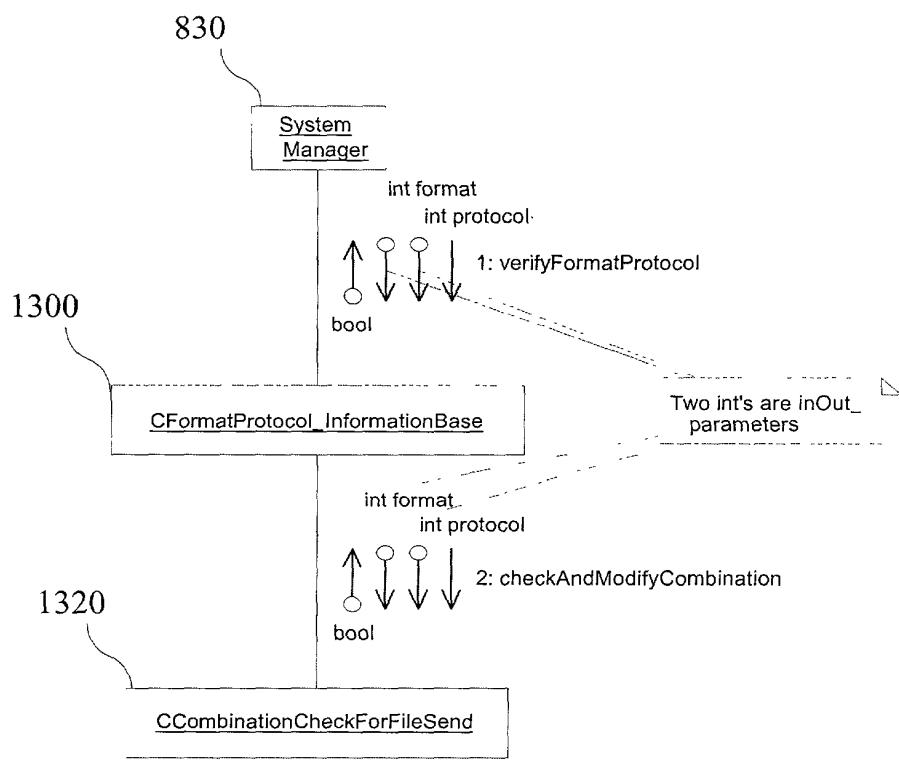


FIG. 25

| Key | Value |
|-----|---------------------|
| 10 | { 1 10 30 100 105 } |
| 20 | { 1 10 30 100 105 } |

FIG. 26A

1. Set return-bool to true
2. Use find function of the Map for inOut_nFormat
3. If returned iterator is end (Not found), set inOut_nFormat to the default value(10) and set return-bool to false
4. get the Set value for the key format
5. Use the find function of the Set for inOut_nProtocol
6. if returned iterator is end (Not found), set inOut_nProtocol to default (1) and set return-bool to false
7. return return-bool

FIG. 26B

| Key | Value | | | | | | | | | | | | |
|-----|--|-----|-------|---|---|----|----|----|----|-----|-----|-----|-----|
| 1 | <table border="1"><thead><tr><th>Key</th><th>Value</th></tr></thead><tbody><tr><td>1</td><td>1</td></tr><tr><td>10</td><td>10</td></tr><tr><td>30</td><td>30</td></tr><tr><td>100</td><td>100</td></tr><tr><td>105</td><td>105</td></tr></tbody></table> | Key | Value | 1 | 1 | 10 | 10 | 30 | 30 | 100 | 100 | 105 | 105 |
| Key | Value | | | | | | | | | | | | |
| 1 | 1 | | | | | | | | | | | | |
| 10 | 10 | | | | | | | | | | | | |
| 30 | 30 | | | | | | | | | | | | |
| 100 | 100 | | | | | | | | | | | | |
| 105 | 105 | | | | | | | | | | | | |
| 5 | <table border="1"><thead><tr><th>Key</th><th>Value</th></tr></thead><tbody><tr><td>1</td><td>1</td></tr><tr><td>10</td><td>30</td></tr><tr><td>30</td><td>30</td></tr><tr><td>100</td><td>105</td></tr><tr><td>105</td><td>105</td></tr></tbody></table> | Key | Value | 1 | 1 | 10 | 30 | 30 | 30 | 100 | 105 | 105 | 105 |
| Key | Value | | | | | | | | | | | | |
| 1 | 1 | | | | | | | | | | | | |
| 10 | 30 | | | | | | | | | | | | |
| 30 | 30 | | | | | | | | | | | | |
| 100 | 105 | | | | | | | | | | | | |
| 105 | 105 | | | | | | | | | | | | |

FIG. 27A

1. Set return-bool = true
2. Use find function of the Map for inOut_nFormat
3. If returned iterator is end, set inOut_nFormat to the default value (5) and set return-bool to false
4. Get the Map corresponding to the key format
5. Use the find function of the Map for inOut_nProtocol
6. if returned iterator is end{
 set inOut_nProtocol to default (105)
 and set return-bool to false
 }
else {
 return-bool = (inOut_nProtocol EQ
 (Value field corresponding to
 inOut_nProtocol))
 logical-AND return-bool.
 set inOut_nProtocol =
 (Value field corresponding to inOut_nProtocol).
 }
7. return return-bool

FIG. 27B